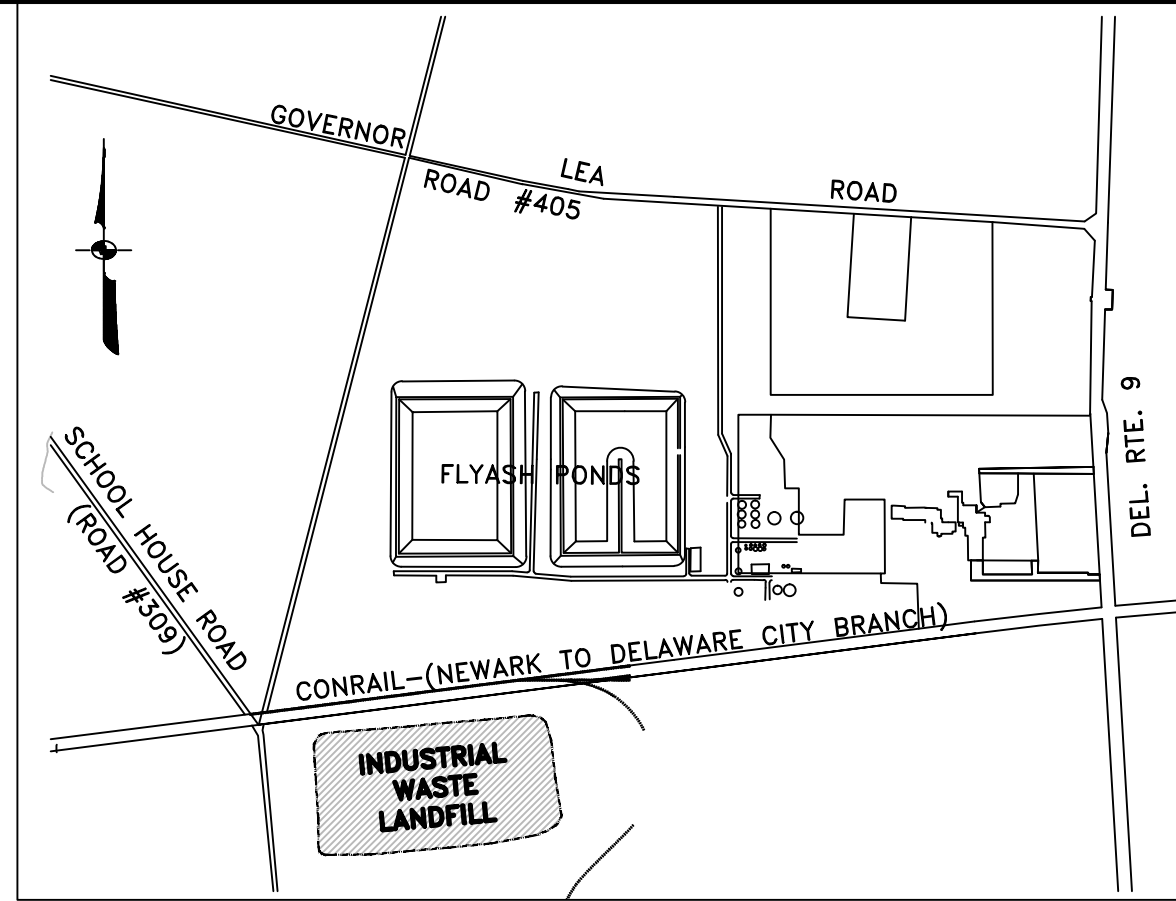
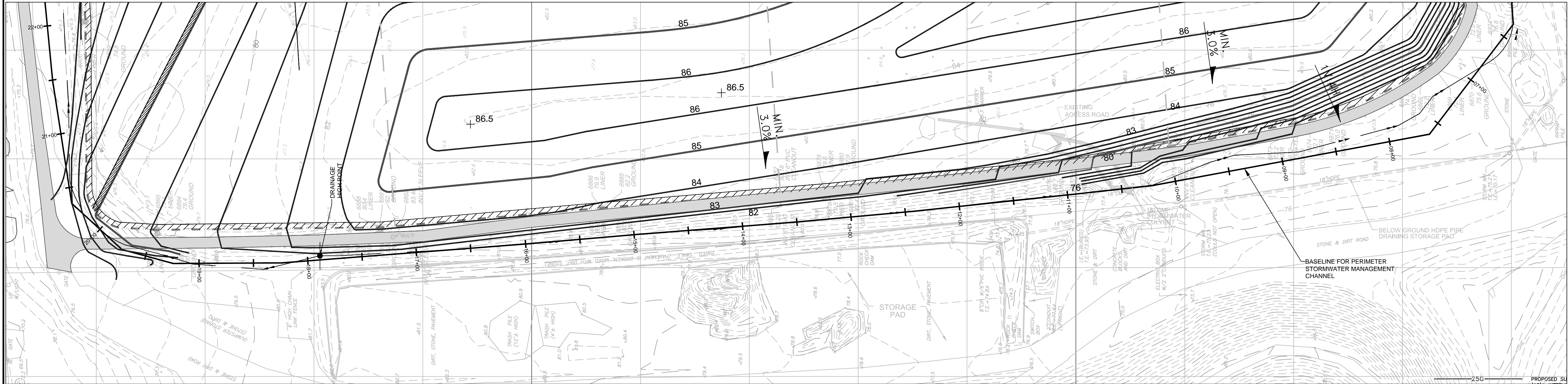


Perimeter Channel Dimensions - South Side						
Channel	Station	Bottom Width (ft) B	Side Slope Z	Channel Depth (ft) D	Bed Slope (ft/ft)	Lining
CP-2B	07+30 - 10+23	3	2:1	1.75	0.012	NAG P300
CP-2A	10+77 - 18+10	3	2:1	1.5	0.012	NAG P300

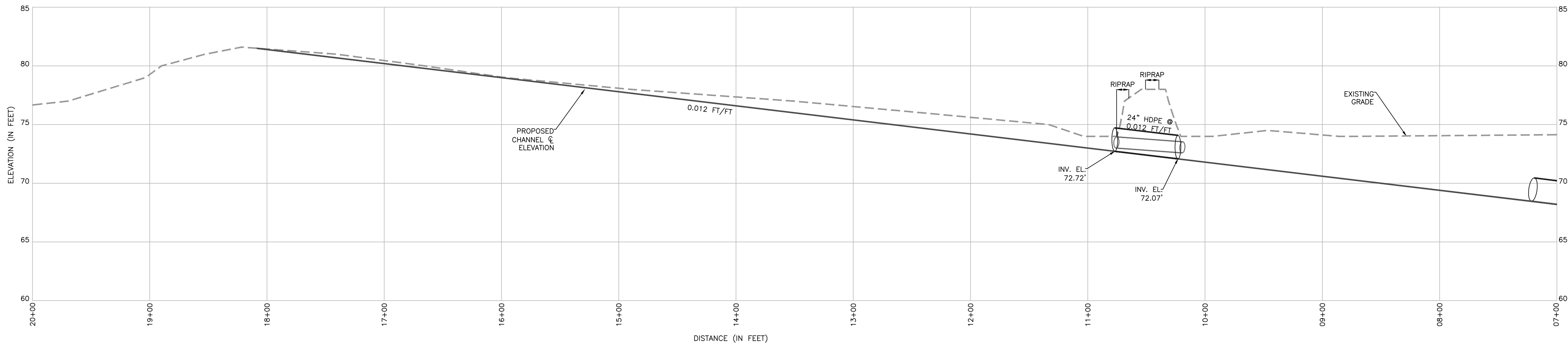


VICINITY MAP
NOT TO SCALE



PERIMETER CHANNEL
PLAN VIEW - SOUTH SIDE
SCALE: 1"=50'

LEGEND	
	EXISTING SPOT ELEVATION
	EXISTING EDGE OF TREES
	EXISTING FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING PROPERTY LINE
	EXISTING INTERIOR PARCEL LINE
	EXISTING EDGE OF HEAVY FOLIAGE
	EXISTING ABOVE-GROUND ELECTRIC LINE ALIGNMENT
	EXISTING POLE SUPPORTING ELECTRIC LINE
	EXISTING RAILROAD
	EXISTING STORMWATER CULVERT
	LIMIT OF LANDFILL LINER SYSTEM (APPROX. BOUNDARY OF LANDFILL)
	EXISTING UNPAVED ACCESS ROAD
	EXISTING PERIMETER DRAINAGE CHANNEL & FLOW DIRECTION
	72 PROPOSED FINAL GRADE (MINOR CONTOUR)
	80 PROPOSED FINAL GRADE (MAJOR CONTOUR)



PERIMETER CHANNEL
PROFILE - SOUTH SIDE
SCALE: HORIZ 1"=50'
VERT 1"=5'

- NOTES
- INFORMATION SHOWN HEREON REGARDING EXISTING FEATURES, GROUND TOPOGRAPHY AND PROPERTY/EASEMENT LINES BASED ON A GROUND SURVEY COMPLETED IN APRIL 2005 AND UPDATED THROUGH FEBRUARY 2007 BY VANDEMARK & LYNCH, INC., 4305 MILLER RD., PO BOX 2047, WILMINGTON, DE 19899, (302) 764-7635. SURVEY CONTROLS ARE AS FOLLOWS:

HORIZONTAL DATUM: PREMCOR DELAWARE CITY PLANT
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM 1929

BENCHMARK: PLANT CONTROL MONUMENT #208 LOCATED APPROXIMATELY 70' WEST OF WEST 6TH STREET AT THE CENTERLINE OF Q STREET EXTENDED AND 43.2' SOUTH OF A CHAIN LINK FENCE. ELEVATION = 65.35'
 - ALL WORK SHALL BE PERFORMED AND COMPLETED TO SATISFY THE REQUIREMENTS OF THE DNREC IWL OPERATING PERMIT, DATED FEBRUARY 26, 2004.
 - CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED BY VALERO, MOTIVA AND DNREC TO PERFORM THE WORK PRIOR TO COMMENCEMENT OF WORK.
 - THE PROPOSED CHANNEL CENTERLINE ELEVATION REPRESENTS THE TOP OF LINING ELEVATION.
 - SIZES, MATERIALS, AND FINAL GRADES OF CHANNEL CULVERTS WILL BE FINALIZED WITH CONSTRUCTION LEVEL DRAWINGS.
 - SEE SHEETS C-50 THROUGH C-52 FOR CROSS-SECTIONS.

Sheet 15 of 2005 - 17463-14 DWS Name: A:\20240421-Hatch-ML-Westing Dept\350-52 Per Plan Prod.dwg Updated By: smthw@C

REVISIONS				
NO.	BY	CHKD	DATE	DESCRIPTION
1	JAC	JAC	10/30/07	REVISED TO ADDRESS DNREC COMMENTS
2	JAC	JAC	02/02/08	SUBMITTED WITH CLOSURE PLAN FOR DNREC REVIEW

WARNINGS	
	IF THE SEAL ON THIS PLAN IS NOT RED OR RAISED THEN THIS PLAN MAY HAVE BEEN ALTERED AND RECOPIED. ORIGINAL SEALS ARE STAMPED IN RED INK OR EMBOSSED WITH A CRIMPING SEAL.

PLANS ISSUED BY:	
	335 COMMERCE DRIVE, STE 300 FORT WASHINGTON, PA 19034 TEL: (215) 367-2500 FAX: (215) 367-1000

DESIGNED BY:	
NBL	10/13/05
SMG	02/02/06
JAC	10/30/07
JAC	10/30/07

DELAWARE CITY REFINERY
INDUSTRIAL WASTE LANDFILL CLOSURE

PERIMETER CHANNEL PLAN & PROFILE
SOUTH SIDE (SHEET 2 OF 4)

JOB NO.		SCALE:	
20240421		AS SHOWN	
ORIGINAL DATE:	LAST REVISED:	REV	
09/16/05	10/30/07	1	

DRAWING NO.

C-41